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1988 Gordon Research Conference on Organometallic Chemistry

Final Progress Report

AFOSR Contract No. AFOSA-88-0193

The Gordon Conference on "Organometallic Chemistry" was held June 27-July 1, 1988 at Salve Regina College in Newport, R.I. The conference had <u>ca</u> 130 participants from academe, industry, and government laboratories. A significant fraction of conferees were from abroad. There were 32 speakers covering a range of subjects from "Organometallics in Organic Synthesis" and "Atom Transfer Reactions" to "New Techniques and Methods of Analysis" and "Organometallics and New Materials'. A copy of the conference program is attached.

The talks focused on new results and emerging areas. Ample time for discussion in formal sessions was provided, and discussion was lively and widely based. Particularly stimulating presentations focused on organometallics in the preparation of new materials such as quantum dots, fast FTIR methods for analysis of reaction mechanisms, asymmetric hydrogenation catalysis, and exidation catalysis reactions and models. One session on olefin polymerization was especially lively with a high degree of industrial interest.

A poster program was also held with 55 presentations. The poster program was divided into four sections with lively discussion and analysis of the results. It was generally agreed that this was the finest poster session in the history of this conference.

The consensus of conferees was that this year's program was highly successful in promoting an exchange of ideas and results in a wide-ranging field, and in highlighting important new directions of relevance to organometallic enemistry.

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Gary S. Silverman 181 Chemicals, Inc. Chemicals Hesearch Woodbridge Rd. & Handolph Ave. Hanway, NJ 07055	George G. Stanley Department of Chemistry Louisiana State University Baton Rouge, IA 70804	7 0, -	Sharon Stellrecht Chemical Abstracts Services Department 51 2540 Olentangy River Road Columbus, Uhio 43202	James Stevens Dow Chemical Co. 1776 Bullding Midland, MI 48674	Alan M. Stolzenberg Department of Chemistry Brandels University Waltham, MA 02254	Jeffrey H. Stryker Department of Chemistry Indiana University Bloomington, IH 47405	Varior sau Hoechst Celanese Chemical Group P.O. Box 901/ Corpus Christi, Texas 78469	Joseph Templeton University of North Carolina Department of Chemistry CBF 3290, Venable Hall Chapel Hill, NC 27599	Klaus H. Theopold Department of Chemistry Cornell University Baker Laboratory Ithaca, New York 14855	Mayne Tikkanen Department of Chemistry & Blochemistry 5151 State University Drive
207A	202B	102A	208A 305A	311A	mology		210A	210A	211A	
Thomas 6, Richmond Department of Chemistry University of Utah Sait Lake City, UT 84112	Dean M. Roddick Chemistry Dept., Box 3836 University of Myoming Laramie, WY 82071	lan P. Rothwell Department of Chemistry Purdue University W. Lafayette, IN 47907	Deborah E. Samkoff Department of Chemistry University of Minnesota-Duluth Duluth, MN 55812 Michael Angelo Scalone	Basel SWITZERLAND RIchard R. Schrock	Massachusetts institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139	Unfich Schubert Unstitut fur Anorganische Chemie der Universität Am Hubland D-8700 Murzburg	Patricia A. Shapley Department of Chemistry University of Illinois 505 South Hathews Avenue	- ¥	Urbana, IL 61801 John Sheridan Rutgers University Department of Chemistry	Hewark, NJ 07102
203A	312B	311A	203A	2018	314A	3118	205A	205A	206A	206A
Hyoji Noyori Department of Chemistry Nagoya University Chikusa, Nagoya 464 Janan	JOSEPH M. O'Connor Department of Chemistry, D-006 University of California, San Diego	2	- ,		rasadena, CA 91125 Steven Pedersen Department of Chemistry University of California	Berkeley, CA 94720 Jeffrey L. Peterson Department of Chemistry West Virginia University Morgantown, W.V. 26506	Allan Pinhas Department of Chemistry University of Cincinnati Cincinnati, OH 45221-0172	Rinaldo Poli Department of Chem. & Blochem University of Maryland College Park, MD 20742	Paul Pregosin Laboratorium für anorg. Chemie ETH-Zentrum CH-8092 Zürich SWITZEHLAND	Thomas A. Puckette Texas Eastman Company D. G. G. 2011
	Anthony J. Matuszko Air Force Office of Scientific Research AFOSR/MC Bidg ^A 10 Bolling AFB Washington, DC 20332	107A	107A	104 V	308B	Joseph S. Merola Department of Chemistry Virginia Polytech Institute & State Univ- Wil Davidson Hall Blacksburg, VA 24061-0699	•	202A	202A	
	Anthony J. Matuszko Air Force Office of Scientific Ne AFOSK/MC Bldg 410 Bolling AFB Washington, DC 20332	James M. Mayer Department of Chemistry, BG-10 University of Washington Seattle, WA 94199			Ronald McKinney E.I. du Pont de Nemours & Co. Experimental Station 328 Wilmington, DE 19898	Joseph S. Merola Department of Chemistry Virginia Polytech Institute & Sta Wil Davidson Hall Blacksburg, VA 24061-0699	David Missein Department of Organic Chemistry The Weizmann Institute of Science Rehovot 76100			£2303

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Salve Regina College, Newport, Rhode Island
ADDENDUM

Mrs. Bergman (guest of Robert Bergman)

Mrs. Britzinger (guest of H.H. Britzinger)

2108 Mrs. Connoly (guest of John Connoly)

2047 Mrs. Howie (Ruest of M. S. Howie)

3148 Mrs. Interrante (guest of Len Interrante) Neta Katz (guest of Tom Katz)

(guest of Michelangelo Scalone) 305A Mrs. Scalone

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June 27-July 1, 1988
                                Salve Regina College, Newport, R. I.
                                Henry Bryndza and Tom Baker, Vice Co-Chairmen
Richard Eisenberg, Chairman
Monday a.m. - "Organometallics in Polymerization Catalysis"
               J. Bercaw, presiding
9:00 am Introductory remarks
9:05
         R. R. Schrock (MIT) (35 min.)
            Discussion (10 min.)
9:50
         A. Janowicz (DuPont) (25 min.)
            Discussion (10 min.)
10:25
         Coffee Break
10:45
         H. H. Brintzinger (Konstanz) (35 min.)
            Discussion (10 min.)
11:30
         R. F. Jordan (Washington State University) (25 min.)
            Discussion (10 min.)
Monday p.m. - "Odd Electron Organometallics/ Para Hydrogen Polarization"
               H. Bryndza, presiding
7:30 pm W. E. Geiger (Vermont) (30 min.)
            Discussion (10 min.)
8:10
         K. H. Theopold (Cornell) (25 min.)
            Discussion (10 min.)
8:45
         Break
9:00
         D. P. Weitekamp (Caltech) (30 min.)
            Discussion (10 min.)
9:40
         R. Eisenberg (Rochester) (20 min.)
            Discussion (10 min.)
Tuesday a.m. - "Organometallics Applied to Organic Synthesis"
                T. Katz, presiding
9:00 am R. Noyori (Nagoya University) (40 min.)
            Discussion (15 min.)
9:55
         S. L. Buchwald (MIT) (25 min.)
            Discussion (10 min.)
10:30
         Coffee Break
10:50
         L. S. Hegedus (Colorado State University) (30 min.)
            Discussion (10 min.)
11:30
         I. Ojima (SUNY - Stony Brook) (30 min.)
            Discussion (10 min.)
Tuesday p.m. - "Organometallic Reactions and Mechanisms"
                R. Bergman, presiding
7:30 pm R. H. Crabtree (Yale) (30 min.)
            Discussion (10 min.)
8:10
8:25
         J. Halpern (University of Chicago) (35 min.)
            Discussion (15 min.)
9:15
         D. Milstein (Weizmann Institute) (30 min.)
            Discussion (10 min.)
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GORDON RESEARCH CONFERENCE ON ORGANOMETALLIC CHEMISTRY

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Wednesday a.m. - "Organometallics and New Materials"
                  T. Baker, presiding
9:00
         M. L. Steigerwald (AT&T Bell Laboratories) (35 min.)
            Discussion (15 min.)
         J. S. Bradley (Exxon) (25 min.)
9:50
            Discussion (10 min.)
10:25
         Coffee Break
10:45
         L. V. Interrante (RPI) (30 min.)
            Discussion (10 min.)
         T. J. Lynch (University of Nevada - Reno) (25 min.)
11:25
            Discussion (10 min.)
Wednesday p.m. - "New Techniques and Methods of Analysis"
                  C. P. Kubiak, presiding
7:30 pm P. S. Pregosin (ETH Zurich) (30 min.)
            Discussion (10 min.)
8:10
8:25
         J. J. Turner (University of Nottingham) (35 min.)
            Discussion (15 min.)
9:15
         C. M. Friend (Harvard) (30 min.)
            Discussion (10 min.)
Thursday a.m. - "Atom Transfer Reactions and Related Systems"
                 M. Darensbourg, presiding
9:00 am J. Groves (Princeton) (35 min.)
            Discussion (15 min.)
9:50
         P. Shapley (University of Illinois) (30 min.)
            Discussion (10 min.)
10:30
         Coffee Break
10:50
         R. G. Finke (University of Oregon) (30 min.)
            Discussion (10 min.)
         J. M. Mayer (University of Washington) (30 min.)
11:30
            Discussion (10 min.)
Thursday p.m. - "Redox and Photochemistry"
                 M. Brookhart, presiding
7:30 pm J. Kochi (Houston) (40 min.)
            Discussion (15 min.)
8:25
         Break
8:40
         P. C. Ford (University of California - Santa Barbara) (30 min.)
            Discussion (10 min.)
Friday a.m. - "Polynuclear Systems"
               W. D. Jones, presiding
9:00 am A. L. Balch (University of California - Davis) (35 min.)
            Discussion (10 min.)
9:45
         J. Keister (SUNY - Buffalo) (25 min.)
            Discussion (10 min.)
10:20
         Coffee Break
10:40
         Final Comments and Discussion
                                         (60 min.)
            Emerging directions in organometallic chemistry; next year's agenda
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